## JENT COOPERATION TREATY

RECEIVED AUG 0 8 2003



### From the INTERNATIONAL SEARCHING AUTHORITY

VERMETTE & CO. Box 40, Granville Square Suite 230-200 Granville Street Vancouver, B.C. V6C 1S4 CANADA

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing (day/month/year) 07/08/2003
Applicant's or agent's file reference	
2313-101	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/CA 03/00593	(day/month/year) 23/04/2003
Applicant	
SONIC ENVIRONMENTAL SOLUTIONS INC.	
1. X The applicant is hereby notified that the International Search	Report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	·
When? The time limit for filing such amendments is norma International Search Report; however, for more de	ally 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	
For more detailed instructions, see the notes on the accordance	mpanying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	n Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international apulf the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided completion of the technical preparations for international publications.	of withdrawal of the international application, or of the in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 mo	al preliminary examination must be filed if the applicant on the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Irene Sardjoe

# NOTES TO FORM PCT/ISA/220



detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policition. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NUTES TO FORM PCT/ISA/220 (continued)





The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   \*Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.\*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# **ITENT COOPERATION TREATY**



# **PCT**



## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		on of Transmittal of International Search Report
2313-101	ACTION (Form PCT/IS	A/220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/CA 03/00593	23/04/2003	23/04/2002
Applicant		
SONIC ENVIRONMENTAL SOLUT	IONS INC.	
This International Search Report has been according to Article 18. A copy is being tra		Authority and is transmitted to the applicant
This International Search Report consists  X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in	this report.
Basis of the report		
With regard to the language, the language in which it was filed, unl	international search was carried out on the ess otherwise indicated under this item.	basis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation	of the international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the		e international application, the international search
<del></del>	onal application in written form.	_
	rnational application in computer readable	form.
	this Authority in written form.	
	this Authority in computer readble form.	
the statement that the sub- international application a	osequently furnished written sequence listin is filed has been furnished.	g does not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable for	m is identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the <b>title</b> ,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su		
		nority as it appears in Box III. The applicant may, report, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be publ	ished with the abstract is Figure No.	1
as suggested by the appli	cant.	None of the figures.
because the applicant fail	ed to suggest a figure.	
because this figure better	characterizes the invention.	

A. CLASSIF	TICATION OF SUBJECT B09C1/02	T MATTER	าก
IFC /	D09C1/0Z	AO	JU

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

 $\begin{array}{ccc} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC} & 7 & \mbox{B09C} & \mbox{A62D} & \mbox{B01D} \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(	US 4 151 067 A (H. GROW) 24 April 1979 (1979-04-24)	33,34
Ą	column 2, line 50 -column 4, line 64 figure 	1,2
<b>A</b>	WO 97 14765 A (MOBIL OIL) 24 April 1997 (1997-04-24) page 4, line 1 -page 7, line 13 figure 1	1,2,6
4	US 6 049 021 A (G. GETMAN) 11 April 2000 (2000-04-11) cited in the application claims 1-12	1
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      'A' document defining the general state of the art which is not considered to be of particular relevance      'E' earlier document but published on or after the international filing date      'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      'O' document referring to an oral disclosure, use, exhibition or other means      'P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
30 July 2003	07/08/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Laval, J

1

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indicate where appropriate, of the relevant passages	Relevant to claim No.
Jalegory	micre appropriate, or the relevant passages	, individual to cidiff (NO.
A	WO 02 22252 A (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION) 21 March 2002 (2002-03-21) cited in the application page 6, line 30 -page 8, line 24	1
Ą	US 4 941 134 A (C. NYBERG) 10 July 1990 (1990-07-10) cited in the application	
A	US 5 376 182 A (L. EVERETT) 27 December 1994 (1994–12–27) cited in the application	•
`	·	
	<del>.</del>	
	,	
		·

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4151067	Α	24-04-1979	NONE			
WO 9714765	Α	24-04-1997	US	5690811	Α	25-11-1997
			ΑU	696770	B2	17-09-1998
			AU	6686196	Α	07-05-1997
			EP	0861309	A1	02-09-1998
			JP	11514405	T	07-12-1999
			TR	9800700	T2	21-07-1998
			WO	9714765	A1	24-04-1997
US 6049021	Α	11-04-2000	AU	4166500	A	29-08-2000
			CA	2362469	A1	17-08-2000
			EP	1159745	A1 .	05-12-200
			JP	2002536180	T	29-10-2002
			WO	0048201	A1	17-08-2000
WO 0222252	Α	21-03-2002	WO	0222252		21-03-2002
			AU	9347101		26-03-2002
			CA	2421916	A1	21-03-200
US 4941134	Α	10-07-1990	AT	117222		15-02-1995
			ΑT	154900		15-07-1997
			AU	3229189		05-10-1989
•			AU	639346		22-07-1993
			AU	7943191		26-09-1993
			CA	1325266		14-12-1993
			CA	1333959		17-01-1999
			CN	1038227		27-12-1989
			CN	1065230		14-10-1992
			DΕ	68920612		02-03-199
			DE	68920612		31-08-199
			DE	68928152		07-08-1997
			DE	68928152		27-11-1997
			EP	0335402		04-10-1989
			EP	0619147		12-10-1994
			ES	2066801		16-03-199
			ES	2106413		01-11-1997
			GR	3015522		30-06-1999
			GR	3024511		28-11-1997
			JP	2021972		24-01-1990
			JP	2873309		24-03-1999
			NZ	228558		26-04-199
			NZ	236559		26-04-199
			US	5005773		09-04-1991
			ZA 	8902388 	A 	27-12-1989
US 5376182	Α	27-12-1994	AU	6411294		11-10-1994
			WO	9421346	Λ1	29-09-1994